

Rabbit anti-Human ABCG5 Polyclonal Antibody | anti-ABCG5 antibody

Anti-ABCG5 antibody

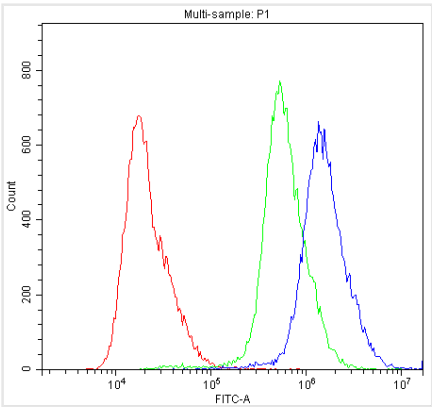
CATALOG # AAA45450	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

ABCG5; Polyclonal Antibody; Anti-ABCG5 antibody; ATP-binding cassette sub-family G member 5; ATP-binding cassette; sub-family G(WHITE); member 5; ABCG5 antibody; ABCG5_HUMAN antibody; ATP binding cassette sub family G(WHITE) member 5(sterolin 1) antibody; ATP binding cassette sub family G member 5 antibody; ATP-binding cassette sub-family G member 5 antibody; Sterolin 1 antibody; Sterolin-1 antibody; STSL antibody; anti-ABCG5 antibody

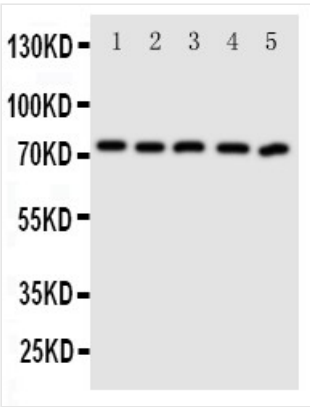
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	651
Applicable Applications for anti-ABCG5 antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ABCG5 (116-131aa NGRALRREQFQDCFSY).
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A431 cells using anti-ABCG5 antibody (AAA45450).Overlay histogram showing A431 cells stained with AAA45450 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ABCG5 Antibody (AAA45450,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of ABCG5 using anti- ABCG5 antibody (AAA45450).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: MCF-7 Whole Cell LysateLane 2: A549 Whole Cell LysateLane 3: HT1080 Whole Cell LysateLane 4: U87 Whole Cell LysateLane 5: SKOV Whole Cell LysateAfter Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- ABCG5 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ABCG5 at approximately 73KD. The expected band size for ABCG5 is at 73KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ABCG5 antibody

Description: Rabbit IgG polyclonal antibody for ATP-binding cassette sub-family G member 5(ABCG5) detection. Tested with WB in Human.

Background: ABCG5(Atp-binding cassette, subfamily g, member 5) also known as STEROLIN 1, is a protein that in humans is encoded by the ABCG5 gene. The protein encoded by this gene is a member of the superfamily of ATP-binding cassette(ABC) transporters. This protein is a member of the White subfamily. The protein encoded by this gene functions as a half-transporter to limit intestinal absorption and promote biliary excretion of sterols. The ABCG5 gene contains 13 exons and spans about 28 kb.The ABCG5 gene is mapped on 2p21. It is expressed in a tissue-specific manner in the liver, colon, and intestine. This gene is tandemly arrayed on chromosome 2, in a head-to-head orientation with family member ABCG8. Mutations in this gene may contribute to sterol accumulation and atherosclerosis, and have been observed in patients with sitosterolemia. Small(2003) reviewed the role of ABC transporters in secretion of cholesterol from liver into bile, particularly the role of ABCG5/ABCG8.The ABCG5 and ABCG8 genes are an example of closely neighboring genes in a head-to-head orientation that, when mutated, cause the same phenotype.

NCBI AND UNIPROT INFORMATION

NCBI GI #	17432917
NCBI GeneID	64240
UniProt Accession #	Q9H222; Q2T9G2; Q96QZ2; Q96QZ3
Molecular Weight	28,480 Da
NCBI Official Full Name	ATP-binding cassette sub-family G member 5
NCBI Official Synonym Full Names	ATP-binding cassette, sub-family G (WHITE), member 5
NCBI Official Symbol	ABCG5
NCBI Official Synonym Symbols	STSL
NCBI Protein Information	ATP-binding cassette sub-family G member 5; sterolin 1; sterolin-1; ATP-binding cassette, subfamily G, member 5

UniProt Protein Name	ATP-binding cassette sub-family G member 5
UniProt Gene Name	ABCG5
UniProt Entry Name	ABCG5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/abcg5-antibody-western-blot-elisa/45450>